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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/549,300	01/31/2007	Lynne Canne Bannen	EX04-018C-US	3595
63572 7590 680652010 MCDONNELL BOEHNEN HULBERT @ BERGHOFF LLP 300 SOUTH WACKER DRIVE			EXAMINER	
			BALASUBRAMANIAN, VENKATARAMAN	
SUITE 3100 CHICAGO, IL	.60606	ART UNIT	PAPER NUMBER	
,			1624	•
			MAIL DATE	DELIVERY MODE
			08/06/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

#### Application No. Applicant(s) 10/549,300 BANNEN ET AL Office Action Summary Examiner Art Unit /Venkataraman 1624 Balasubramanian/ -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). S

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PTOL-326 (Rev. 08-06)	

1) Notice of References Cited (PTO-892)

Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO/SB/08)

Attachment(s)

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#### DETAILED ACTION

The applicants' response which included amendment to claims 1, 11, 15, 30, 42 and cancellation of claims 6, 7, 10, 25,26, 29, 37, 38, 41, 45-50 and 52-57, filed 7/26/2010 under 37 CFR 1.116 in reply to the final rejection has been entered. Claims 1, 5, 8, 9, 11-24, 27, 28, 30-36, 39, 40, 42 and 43 are now pending. In view of applicants' response, the 112 second paragraph rejections and 103 rejection made in the previous office action have been obviated. Upon further consideration, the Finality of the previous office action is hereby withdrawn to apply new grounds of rejections.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 8, 9 and 43 are rejected under 35 U.S.C. 102(b) as being anticipated by Cho et al., US 5,780,472.

Cho teaches several piperazine compounds of formula I for treating breast cancer, which include instant compounds. See column 1, formula I. Note when W is N, Y is N, m and n are zero, with the given choice of R<sup>3</sup>, the compounds taught by Cho include instant compounds. See entire document. Particularly, see column 1-7, for detailed description of the invention and Schemes for the process of making these compounds. Especially, see column 8-32 for Table of compounds and examples of 1-149 for compounds made. More specifically see Example 146 (also shown in Table).

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### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 1, 5, 8, 9 and 43 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cho et al., US 5,780,472.

Cho teaches several piperazine compounds of formula I for treating breast cancer, which include instant compounds. See column 1, formula I. Note when W is N, Y is N, m and n are zero, with the given choice of R<sup>3</sup>, the compounds taught by Cho include instant compounds. See entire document. Particularly, see column 1-7, for detailed description of the invention and Schemes for the process of making these compounds. Especially, see column 8-32 for Table of compounds and examples of 1-149 for compounds made. More specifically see Example 146 (also shown in Table).

Cho differs in not exemplifying all choices of R<sup>3</sup> ortho to piperazine in the pyridine ring. However, Cho teaches equivalency of those compounds taught in the examples 1Art Unit: 1624

49 with those generically claimed in formula I. Hence, one trained in the art with the guidance provided by Cho will be motivated to make all compounds of the genus including instant compounds and expect them to have the use taught therein.

# Allowable Subject Matter

Claims 11-24, 27 and 28 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 30-36, 39, 40 and 42 are allowed.

### Conclusion

Any inquiry concerning this communication from the examiner should be addressed to Venkataraman Balasubramanian (Bala) whose telephone number is (571) 272-0662. The examiner can normally be reached on Monday through Thursday from 8.00 AM to 6.00 PM. The Supervisory Patent Examiner (SPE) of the art unit 1624 is James O. Wilson, whose telephone number is 571-272-0661. The fax phone number for the organization where this application or proceeding is assigned (571) 273-8300. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-1600.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAG. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you

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have questions on access to the Private PAIR system, contact the Electronic Business

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Center (EBC) at 866-2 17-9197 (toll-free).

/Venkataraman Balasubramanian/

Primary Examiner, Art Unit 1624